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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,500	08/05/2003	Marie B. O'Regan	CL2332USNA	8660

23906 7590 04/18/2007  
E I DU PONT DE NEMOURS AND COMPANY  
LEGAL PATENT RECORDS CENTER  
BARLEY MILL PLAZA 25/1128  
4417 LANCASTER PIKE  
WILMINGTON, DE 19805

EXAMINER
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HINES, ANNE M

ART UNIT	PAPER NUMBER
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2879

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/18/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/634,500	<b>Applicant(s)</b> O'REGAN ET AL.	
	<b>Examiner</b> Anne M. Hines	<b>Art Unit</b> 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 08 December 2006.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 December 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## **DETAILED ACTION**

### ***Response to Amendment***

The amendment filed on October 24, 2006, has been entered and acknowledged by the Examiner. The drawings filed December 8, 2006 have been received and overcome the objection to the drawings.

Claims 1-15 are pending in the instant application.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kitahora et al. (US 2001/0033347).

Regarding claim 1, Kitahora discloses a laminated polymer comprised of at least three adjacent layers of transparent polymer (Fig. 13, S32, S22, & S12; Page 22, Paragraph [0375]) wherein each pair of adjacent layers is separated by a transparent solid non-glass interlayer or an air cavity (Fig. 13, LFr, LFg; Page 22, Paragraph [0375]), wherein the transparent non-glass interlayer or air cavity contains a device comprising at least one element selected from the group consisting of solid state

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lighting, heat sensors, light sensors, pressure sensors, thin film capacitance sensors, photovoltaic cells, thin film batteries, liquid crystal display films, suspended particle device films, and transparent electrical conductors (Page 22, Paragraphs [0373]-[0375]).

Regarding claim 2, Kitahora further discloses wherein each pair of adjacent transparent polymer layers is separated by a transparent solid non-glass interlayer (Fig. 13, LFr, LFg; Page 22, Paragraphs [0373]-[0375]).

Regarding claim 3, Kitahora further discloses wherein the devices comprise solid-state lighting (Page 22, Paragraphs [0373]-[0375]).

Regarding claim 4, Kitahora further discloses wherein the solid state lighting is in the form of at least one light emitting diode (Page 22, Paragraphs [0373]-[0375]).

Regarding claim 5, Kitahora further discloses wherein the solid state lighting is in the form of at least one organic light emitting diode (Page 22, Paragraphs [0373]-[0375]).

Regarding claim 6, Kitahora further discloses wherein the solid state lighting is in the form of an electroluminescent film (Page 22, Paragraphs [0373]-[0376]).

Regarding claim 7, Kitahora further discloses wherein at least one of the devices further comprises transparent electrical conductors to provide means to apply an activating voltage to the solid state lighting (Fig. 13, E11 & E12; Page 22, Paragraph [0377]).

Regarding claim 8, Kitahora further discloses wherein the transparent electrical conductors are indium tin oxide films (Page 1, Paragraphs [0007]-[0009]).

Regarding claim 9, Kitahora further discloses wherein the at least one device further comprises a microprocessor chip that is programmed to control the solid state lighting and to cause the solid state lighting to display a sequence of images (Fig. 10; Pages 20-21, Paragraph [0344]; Page 23, Paragraph [0380]).

Regarding claim 10, Kitahora further discloses wherein the microprocessor chip is programmed to cause the solid state lighting to display text (Fig. 10; Pages 20-21, Paragraph [0344]; Page 23, Paragraph [0380]; Page 1, Paragraph [0006]).

Regarding claim 11, Kitahora further discloses wherein there is provided externally to the laminated polymer a microprocessor chip that is programmed to control the solid state lighting and to cause the solid state lighting to display a sequence of images (Fig. 10; Pages 20-21, Paragraph [0344]; Page 23, Paragraph [0380]; Page 1, Paragraph [0006]).

Regarding claim 12, Kitahora further discloses wherein the microprocessor chip is programmed to cause the solid state lighting to display text (Fig. 10; Pages 20-21, Paragraph [0344]; Page 23, Paragraph [0380]; Page 1, Paragraph [0006]).

Regarding claim 13, Kitahora further discloses wherein the laminated polymer is flexible and can be adapted to various shapes and forms (Page 1, Paragraph [0008]; Page 20, Paragraph [0334]).

Regarding claim 14, Kitahora further discloses wherein the solid state lighting is in the form of a light emitting diode (Page 22, Paragraphs [0373]-[0375]).

Regarding claim 15, Kitahora further discloses wherein the solid state lighting is in the form of an organic light emitting diode (Page 22, Paragraphs [0373]-[0375]).

***Response to Arguments***

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

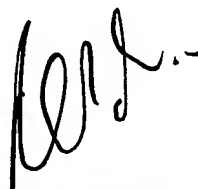
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anne M Hines  
Patent Examiner  
Art Unit 2879



**NIMESHKUMAR D. PATEL**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2800**